Index of Claims

| Appli | icat | ion/Con | trol No | ١. |
|-------|------|---------|---------|----|
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09/944,106

LIEBL ET AL.

Applicant(s)/Patent under Reexamination

Examiner

Art Unit

Aaron C. Perez-Daple

2154

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

Non-Elected Ν Interference

Appeal Α 0 Objected

| Claim Date   |               |           | 7#       |                         | Cla                | im   | Date     |              |               |     |               |          |          | CI           | aim      | Date     |                 |          |          |        |          |                   |           |          |          |          |          |                 |          |                 |
|--------------|---------------|-----------|----------|-------------------------|--------------------|--|----------|--------------|---------------|-----|---------------|----------|----------|--------------|----------|----------|-----------------|----------|----------|--------|----------|-------------------|-----------|----------|----------|----------|----------|-----------------|----------|-----------------|
|              |               | 2         |          |                         |                    |  |          |              | 7             |     | ĺ             | а        |          |              |          |          |                 |          |          | 7      |          | 1                 |           |          |          |          |          |                 |          |                 |
| Final        | Original      | 8/18/05   |          |                         |                    |  |          |              | - 1           |     | Final         | Original |          | -            |          |          |                 | - 1      |          |        | Final    | Original          |           |          |          |          |          |                 |          |                 |
| 证            | ٦             | 8/1       |          |                         |                    |  |          |              | ::            |     | 证             | Öri      |          |              |          |          |                 |          |          |        | ΙŒ       | <u>'</u> <u>E</u> | 1         |          |          |          |          |                 |          |                 |
|              |               |           | $\perp$  | $\perp$                 |                    | _  | Ш        | $\perp$      | _ ::          |     |               |          |          | _            | $\perp$  | _        | Ш               | _        | $\perp$  | _      |          | L                 | Щ         |          | <u> </u> | <u> </u> |          | Ш               |          | Ш               |
|              | 1_            | 1         | _        |                         |                    | ╙  |          | $oxed{oxed}$ | 4             |     |               | 51       |          | _            |          | <u> </u> |                 | _        |          | _      | <u></u>  | 101               |           |          |          | _        |          | Ш               |          | Щ               |
| <u></u>      | <u>β</u><br>Β |           | _        | $\perp$                 | -                  | _  | <u> </u> |              | 4::           |     |               | 52       | _        | 4            | $\perp$  | _        | Ш               | 4        | _        | 4      | <u> </u> | 102               | $\dashv$  |          | ↓_       | _        | <u> </u> | Щ               |          |                 |
| <u> </u>     | P-            |           | $\dashv$ | _                       | -                  | -  |          |              | -4            |     |               | 53       |          | _            | -        | _        |                 | _        | +        | 4      | <u> </u> | 103               | $\vdash$  |          | _        | $\perp$  | _        | Н               | Ш        | Щ               |
| <u> </u>     | <b>b</b>      | .1        | $\dashv$ | +                       | -                  |  | <u> </u> |              |               |     |               | 54       | $\dashv$ | $\dashv$     | +        | +        | Н               | $\dashv$ |          | -      | <u> </u> | 104               |           | _        | ╄        | ╄        | ┢        | Н               | $\dashv$ | $\dashv$        |
|              | <u>5</u>      | √         | +        | +                       | +                  | ├—   |          |              | -             | ŀ   |               | 55<br>56 | $\dashv$ | $\dashv$     | +        | +        | $\vdash$        | $\dashv$ | +        | -      | <u> </u> | 105               |           | +        | ╄        | ╀        | -        | Н               | Н        | -               |
|              | 7             | 1         | +        | +                       | +                  | ├  |          |              |               | ŀ   |               | 57       | $\dashv$ | $\dashv$     | +        | +        | $\vdash$        | $\dashv$ |          | -      |          | 106<br>107        | $\dashv$  | +        | $\vdash$ | $\vdash$ |          | Н               | $\vdash$ | Н               |
|              | 8             | 1         | +        | +                       | +-                 | ├  | ├-       | -            | - ::          | 1   | -             | 58       | $\dashv$ | +            | +        | ╁        | Н               |          |          | -      |          | 107               | $\dashv$  | +        | ╁        | ⊢        | ⊢        | Н               | -        | -               |
|              | 9             | 1         | -        | +-                      | +                  |  |          | +            | -             | ⊪   |               | 59       |          |              |          | ╁        | $\vdash$        |          | +        | -      |          | 109               | -         |          | ┼        | ╁        | ├        | $\vdash$        | $\dashv$ | $\vdash$        |
|              | 10            | 1         |          | +                       | _                  |  | H        | +            | $\dashv$      | ŀ   |               | 60       | $\dashv$ |              |          | +-       | $\vdash$        | _        | +        | -      |          | 110               | $\dashv$  | +        | ╁        | $\vdash$ | H        | Н               | $\dashv$ | $\vdash$        |
|              | 11            | 1         | $\dashv$ | +                       | ┰                  |  | $\vdash$ | $\pm$        | 4             | ŀ   |               | 61       |          |              |          | ╁        | <del>-  </del>  |          | _        | -      |          | 111               | $\dashv$  | _        | +        | +        |          | Н               | $\dashv$ | $\vdash$        |
|              | 12            | 7         | $\dashv$ | +                       | $\top$             | <b>†</b>   |          | $\vdash$     | 1             | ŀ   |               | 62       | -        | -+           | -        | t        | $\vdash$        | 7        | $\dashv$ | 1      | <u> </u> | 112               | $\vdash$  | +        | 1        | t        | 1        | $\vdash \vdash$ | $\dashv$ | $\vdash \vdash$ |
|              | 13            | Ì         | $\dashv$ | 1                       | +                  |  |          | $\vdash$     | $\dashv$      | ŀ   |               | 63       | $\dashv$ |              | +        | 1        | H               | $\dashv$ |          | 1      |          | 113               | $\forall$ | $\dashv$ | $\vdash$ | $\vdash$ | t        | $\vdash$        | $\dashv$ | $\vdash$        |
|              | 14            | 1         | $\top$   | $\top$                  | $\top$             |  |          | $\vdash$     | 7             | ı   |               | 64       |          | $\dashv$     | $\top$   | t        | Н               | 寸        |          | 7      |          | 114               | $\vdash$  |          | 1        | 1        | †        | -               | _        | Н               |
|              | 15            | √         |          |                         | 1                  |  |          |              | 7             | ı   |               | 65       |          | 1            |          | 1        | П               | 寸        |          | 7      |          | 115               | $\Box$    | 1        | T        | 1        |          | $\Box$          | $\neg$   | $\vdash$        |
|              | 16            | √         |          | T                       |                    |  |          |              | 7             | Ī   |               | 66       |          |              |          |          |                 |          |          | 7::::  |          | 116               |           |          |          | T        |          |                 | $\neg$   |                 |
|              | 17            | 1         |          | T                       |                    | П  |          |              | 7             | ľ   |               | 67       |          |              |          |          |                 | $\neg$   |          | 1      |          | 117               | $\neg$    |          |          |          |          |                 |          | $\neg$          |
|              | 1 <b>B</b>    |           |          |                         |                    |  |          |              | 7             | ı   |               | 68       |          |              |          | Î        |                 |          | T        | 7      |          | 118               |           |          |          | 1        | П        |                 | $\Box$   | П               |
|              | 1             |           |          |                         |                    |  |          |              |               |     |               | 69       |          |              |          | П        |                 | T        |          |        |          | 119               |           |          |          | Τ        |          |                 | $\Box$   | П               |
|              | 20            |           |          |                         |                    | Ŀ  |          |              |               |     |               | 70       |          |              |          |          |                 |          |          |        |          | 120               |           |          |          |          |          |                 | $\Box$   |                 |
|              | 21            | 1         |          |                         |                    |  |          |              |               |     |               | 71       |          |              |          |          |                 |          |          |        |          | 121               |           |          |          |          |          |                 |          |                 |
|              | 22            |           |          | ┸                       | $oldsymbol{\perp}$ |  | Ш        |              | _             |     |               | 72       |          |              |          |          |                 |          |          |        |          | 122               |           |          |          |          |          |                 |          |                 |
|              | 23            |           |          |                         |                    | L.   |          |              | _ ::          |     |               | 73       | $\perp$  |              | $\perp$  |          |                 | $\perp$  |          |        |          | 123               |           |          |          |          |          |                 |          |                 |
|              | 24            |           |          |                         |                    | _  | Щ        |              | _             | L   |               | 74       | _        |              |          | <u> </u> |                 |          |          | _ :::: |          | 124               |           |          |          |          |          |                 |          |                 |
|              | 25            | _         |          | _                       |                    | _  | L.,      |              | 4             | ļ   |               | 75       | _        | _ _          |          |          | $\Box$          | _        |          | 4      |          | 125               | _         |          |          |          |          | $\Box$          |          |                 |
|              | 26            | _         | -        | 4                       | _                  | _  | Ш        |              | 4             | Ļ   |               | 76       | _        | 4            |          | _        | $\Box$          | 4        |          | _      |          | 126               |           |          |          |          |          | $\sqcup$        | $\dashv$ |                 |
| ļ            | 27            |           | _        | +                       | +                  | _  | -        |              | -             | -   |               | 77       | -        | _            | $\bot$   | ╄        | _               |          |          | 4      |          | 127               | _         |          |          | <u> </u> |          | $\dashv$        | _        | _               |
| $\vdash$     | 28            |           | -        | +                       |                    | <u> </u>   | $\vdash$ | $\perp$      | -             | -   |               | 78       |          | 4            | +        | ╄        | -               | -        | _        | -      |          | 128               |           | _        | ₩.       |          |          | $\sqcup$        | _        |                 |
| $\vdash$     | 29<br>30      | _         | $\perp$  | +                       |                    |  | Н        | +            | -             | -   |               | 79       | $\dashv$ | +            | -        | ├-       |                 | -        | _        | -      |          | 129               | _         |          | ┞-       | ļ        |          | $\dashv$        | _        |                 |
| $\vdash$     | 31            | _         | +        | +                       | +-                 | _  | Н        | +            | -             | -   |               | 80       | $\dashv$ | -            |          | ╄        | $\dashv$        | $\dashv$ | _        | -      |          | 130               |           |          | 1        | -        | Ш        |                 | _        | _               |
| $\vdash$     | 32            | $\dashv$  | $\dashv$ | -                       | +                  | -  |          | -            | - :::         | ŀ   |               | 81<br>82 | +        | +            | -        | $\vdash$ | $\dashv$        | $\dashv$ |          | -      |          | 131               | +         | _        | -        | -        | -        | $\dashv$        |          | $\dashv$        |
|              | 33            |           |          | +                       | +                  | -  | $\vdash$ |              | -             | ŀ   | $\rightarrow$ | 83       | +        | +            | +        | ╁┈       | $\dashv$        | ϥ        | -        | -      |          | 132               | +         |          | ├        | ├        |          | $\dashv$        |          | $\dashv$        |
|              | 34            | -         | +        | +                       | +                  | ╁  | $\vdash$ | +            | -             | ŀ   | +             | 84       | $\dashv$ | +            | +        | +-       | $\vdash \vdash$ | $\dashv$ | +        | -      | <b> </b> | 133<br>134        | $\dashv$  | $\dashv$ | ╁        | $\vdash$ | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$        |
|              | 35            | -         | $\dashv$ | +                       | +                  | <del>                                     </del> |          | +            | <b>-</b>  ::: | ŀ   |               | 85       | $\dashv$ | $\dashv$     | +-       | +-       | $\vdash$        | +        | +        | 1::::  |          | 135               | $\dashv$  |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$        |
|              | 36            |           | +        | +                       | 1                  | $\vdash$   | $\vdash$ | $\dashv$     | -             | ŀ   |               | 86       | $\dashv$ | $\dashv$     | +-       | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$ | 1      |          | 136               | $\dashv$  |          | +        | $\vdash$ | $\vdash$ | $\vdash$        | $\dashv$ | -               |
|              | 37            | _         | $\dashv$ | +                       |                    | <del>                                     </del> | $\vdash$ | +            | 1             | ŀ   |               | 87       | -+       | +            | $\dashv$ | ╁┈       | $\dashv$        | 十        | -+       | 1      | -        | 137               | $\dashv$  |          | ┢        | $\vdash$ | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$        |
|              | 38            | T         | 十        | +                       |                    | Н  |          | _            | <b>-</b>  ::: | ŀ   | $\neg$        | 88       | $\dashv$ | $\dashv$     | -        | +-       | -               | $\dashv$ | +        | 1      |          | 138               | $\dashv$  | $\dashv$ | ┼─       | $\vdash$ |          | $\dashv$        | ᅱ        | ᅱ               |
|              | 39            | $\exists$ | $\top$   | _                       | $\top$             |  | П        | _            | 1::           | t   | i             | 89       | 一        | 十            | $\dashv$ | T        | $\dashv$        | 寸        | _        | 1      |          | 139               |           | 1        | ┢        | $\vdash$ | $\vdash$ | $\dashv$        | $\dashv$ | $\dashv$        |
|              | 40            |           |          | 1                       | $\top$             |  | П        | $\neg$       | 7             | ľ   |               | 90       | $\neg$   | $\dashv$     | T        | T        |                 | 寸        | 1        | 1      |          | 140               | $\dashv$  |          | T        | $\vdash$ | П        | $\dashv$        | $\dashv$ | $\dashv$        |
|              | 41            |           |          |                         |                    |  | П        |              | 7             | ľ   |               | 91       | $\dashv$ |              | +        | 1        | $\Box$          | $\neg$ † | 1        | 7::::  |          | 141               | $\dashv$  | $\top$   | Τ-       |          | П        | H               | $\dashv$ | $\dashv$        |
|              | 42            |           |          |                         |                    |  |          |              | 1             | Ī   |               | 92       |          | T            |          |          | T               | $\dashv$ |          | 7      |          | 142               | $\neg$    | $\top$   | $\vdash$ | T        | П        |                 | $\dashv$ |                 |
|              | 43            |           |          | $oldsymbol{\mathbb{I}}$ |                    |  |          |              |               | ľ   |               | 93       |          |              |          |          | $\Box$          | $\neg$   |          | ]      |          | 143               |           |          | Π        | Τ        |          | $\neg$          | $\neg$   | $\dashv$        |
|              | 44            |           |          |                         |                    |  |          | $\Box$       |               |     |               | 94       |          |              |          |          |                 |          |          | ]      |          | 144               |           |          |          |          |          | $\neg$          | $\dashv$ | $\neg$          |
| $\Box$       | 45            | _]        |          |                         |                    |  |          |              | ]             | ii[ |               | 95       |          | $oxed{oxed}$ |          |          |                 |          |          |        |          | 145               |           |          |          |          |          |                 |          |                 |
| $oxed{oxed}$ | 46            |           |          | <u> </u>                |                    |  | Ш        |              |               |     |               | 96       | $\Box$   |              |          |          | $\Box$          | $\Box$   |          | ]      |          | 146               |           |          |          |          |          |                 |          |                 |
|              | 47            |           |          | 1                       | $\perp$            |  | Ш        |              | ╝             |     |               | 97       | I        |              |          | $\Box$   |                 | $\bot$   |          | 1      |          | 147               |           |          |          |          |          | J               |          |                 |
| <u> </u>     | 48            | _         | $\perp$  | $\perp$                 | $\perp \perp$      | Щ  | Щ        |              | _             |     |               | 98       | $\perp$  | $\bot$       | 1        | Ш        | [               | $\bot$   |          | 4      |          | 148               | $\Box$    |          |          |          |          |                 | $\Box$   |                 |
|              | 49            | _         | _        | _                       | $\perp$            |  | $\Box$   |              | _             | L   |               | 99       | $\perp$  | $\perp$      | $\perp$  | Ш        | $\dashv$        | $\perp$  | _ _      | J      |          | 149               |           |          |          |          |          |                 | $\Box$   |                 |
| Ш            | 50            |           |          |                         | 1                  |  | Ш        |              | _]:::         | ijĹ |               | 100      |          |              |          |          |                 |          | L        | ]      |          | 150               |           |          |          |          |          | $\Box$          | $\Box$   |                 |